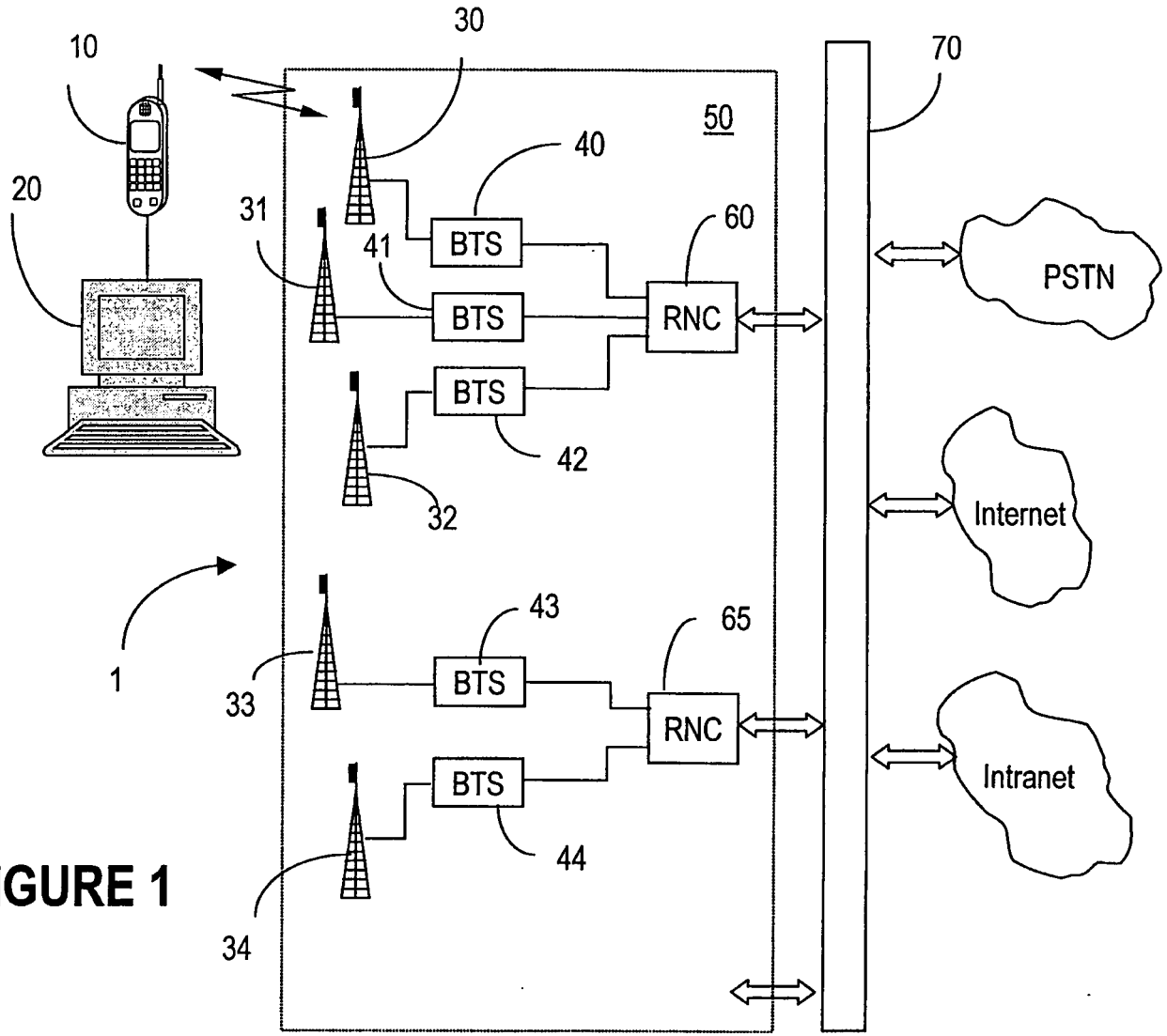
10
30
70
50
40
20
31
41
BTS
60
PSTN
BTS
RNC
BTS
42
32
Internet
1
43
65
33
BTS
RNC
BTS
Intranet
44
34

FIGURE 1

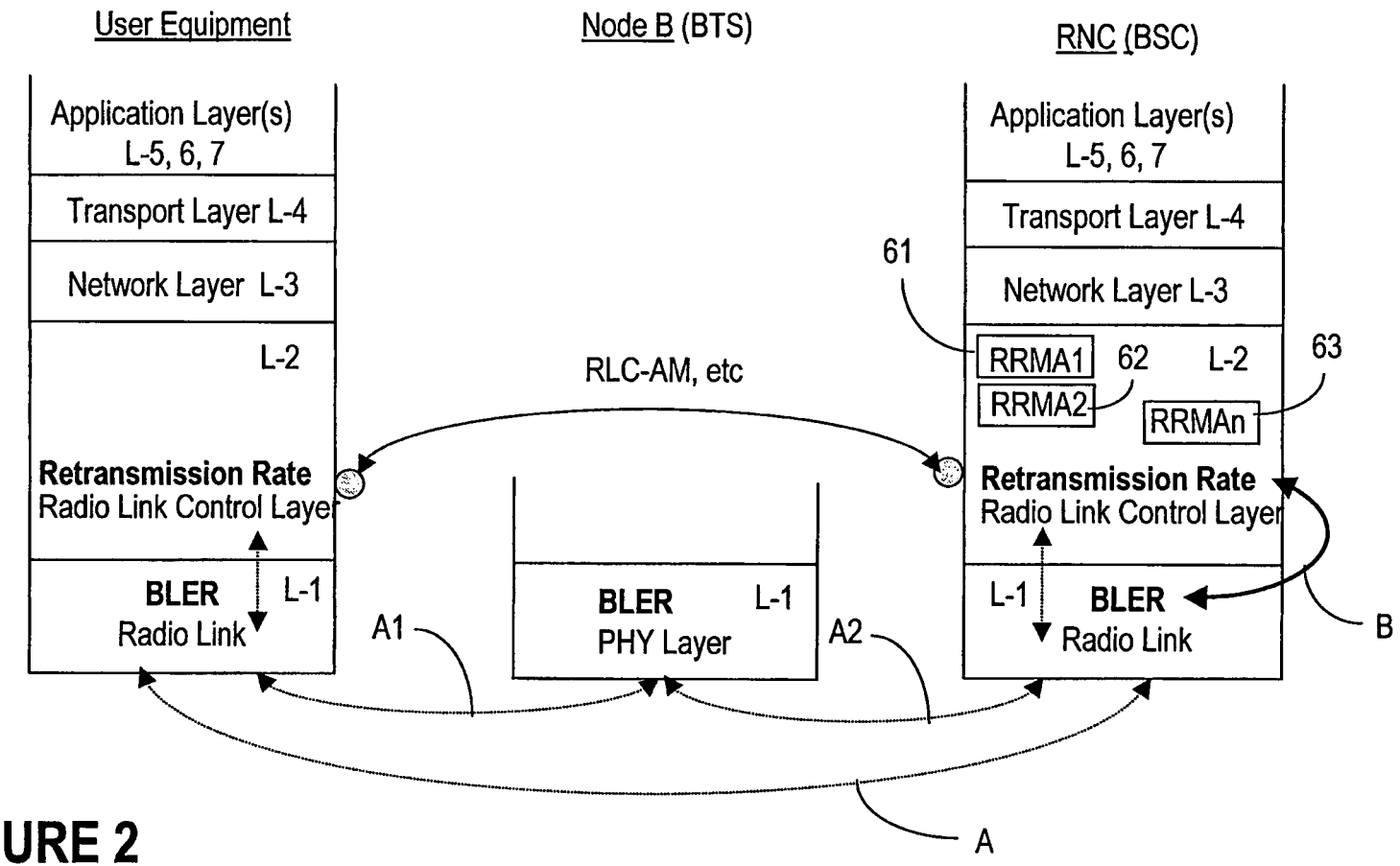
User Equipment
Node B (BTS)
RNC (BSC)
Application Layer(s)
L-5, 6, 7
Transport Layer L-4
Network Layer L-3
L-2
Retransmission Rate
Radio Link Control Layer
BLER
L-1
Radio Link
RLC-AM, etc
BLER
L-1
PHY Layer
61
RRMA1
62
L-2
63
RRMA2
RRMAn
Retransmission Rate
Radio Link Control Layer
L-1
BLER
Radio Link
A1
A2
B
A

FIGURE 2

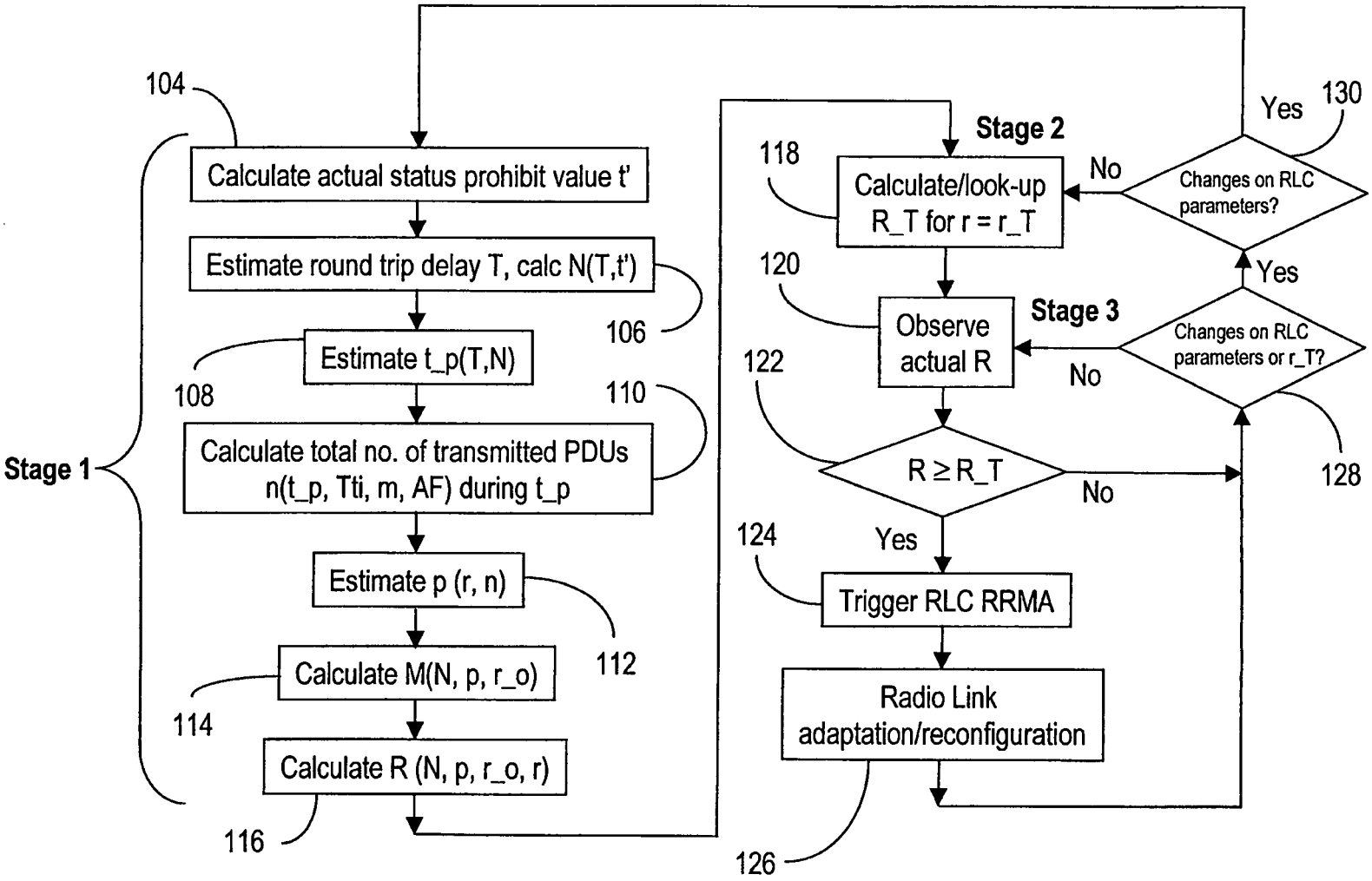
Stage 1
104
Calculate actual status prohibit value t'
Estimate round trip delay T, calc N(T,t')
106
Estimate t_p(T,N)
108
110
Calculate total no. of transmitted PDUs n(t_p, Tti, m, AF) during t_p
Estimate p (r, n)
112
Calculate M(N, p, r_o)
114
Calculate R (N, p, r_o, r)
116
Stage 2
118
Calculate/look-up R_T for r = r_T
120
Observe actual R
Stage 3
122
R ≥ R_T
No
Yes
124
Trigger RLC RRMA
Radio Link adaptation/reconfiguration
126
No
Changes on RLC parameters?
Yes
130
Yes
Changes on RLC parameters or r_T?
No
128

FIGURE 3